

## NEW QUESTIONS FOR TEACHERS

There Are a Great Many Brain Puzzlers in the List.

MADE UP BY STATE COMMISSIONER

Examination Tests for Teachers in Elementary Schools—By Their Answers to These Questions Those Who Desire to Teach Show Whether They Are Grounded in the Rudiments of Education.

Following is the list of questions as prepared under direction of the state commissioner of public schools, and submitted at the county examination for teachers Nov. 2 for elementary school certificates:

### ARITHMETIC

1. Give the explanations you would employ in teaching a class how to subtract 27 from 42.
2. From two, and two and one-seventh hundredths, subtract one and two-thirds thousandths. Express the answer decimally both in figures and in words.
3. The wages of A and B together for 22 days amount to the same as the wages of A alone for 38 1/2 days. For how many days will this sum pay the wages of B alone?
4. The area of Lake Superior is 22,000 sq. mi. and it drains an area of 55,000 sq. mi. The area of Lake Erie is 10,000 sq. mi. and it drains an area of 39,500 sq. mi. What should be added to the drainage of Lake Superior to make the areas drained proportional to the areas of the lakes? How large should Lake Erie be to make the lakes proportional to the areas drained?
5. Distinguish between commercial discount and bank discount; direct and indirect tax; simple and compound ratio.
6. At \$3.50 a hundred, board measure, what is the cost of five pieces of timber each 18 feet long, 1 foot 4 inches wide, 11 inches thick?
7. How much must be invested in 5% bonds at 115 1/2 to secure an annual income of \$500?
8. The interest on \$5,481 for 3 years 6 months 20 days is \$1,299.20. What is the rate per cent? At the same rate, in how many years would the interest become equal to the principal?
9. Express 3 oz. 9 pwt. 9 gr. as a fraction of 1 lb. 4 oz. avoirdupois. Give answer in lowest terms.

### THEORY AND PRACTICE

- Questions 6-10 are based on the Keith's Elementary Education.
1. What advantages are claimed from having pupils pursue a variety of subjects at the same time?
  2. Name some of the conditions on which duration of attention depends.
  3. What is an educational maxim? Quote two or three.
  4. What mental effects result from impure air? From insufficient exercise? From loss of sleep?
  5. Give two practical suggestions for the teaching of morals in the schoolroom.
  6. Why is education the most universal concern of mankind?
  7. What do you understand by a "motor knowledge" of psychology? By a "motor knowledge" of the aims of education?
  8. Why does the public school exist and for what does it stand?
  9. What limit is there to the things that may be taught a child?
  10. Sketch in outline the order of the child's socialization.

### WRITING

For this branch examiners will grade the manuscript in orthography.

### GRAMMAR

To sweeten the beverage, a lump of sugar was laid beside each cup, and the company alternately nibbled and sipped with great decorum, until an improvement was introduced by a shrewd and economical old lady, which was to suspend a large lump directly over the tea table, by a string from the ceiling, so that it could be swung from mouth to mouth—an ingenious expedient which is still kept up in some families—living.

The first eight questions refer to the above selection.

1. Write the subject and the predicate of each principal clause.
2. Write the subject and the predicate of each subordinate clause, and tell what each subordinate clause modifies.
3. Select the infinitives and give the construction of each.
4. Make a list of the transitive verbs in the selection and give the tense of each.
5. Give the principal parts of the irregular verbs.
6. Select an adverb, a prepositional phrase used adverbially, and a clause used adverbially, and tell what each modifies.
7. Select a descriptive adjective of one syllable and one of three or more syllables, and compare each.
8. Parse "until" and the last "which." What part of speech is "directly"? How used? Give the case and construction of "expedient."
9. Write a complex sentence containing an adjective clause modifier. Change it to a simple sentence.
10. How is the passive voice of a verb formed? What takes place when the verb in a sentence is changed from the active to the passive form?

### ORTHOGRAPHY

1. Give names and illustrate the principal diacritical marks in common use.
2. Write the abbreviations for: merchandise, namely, credit, Member of Congress, last month, close mouthered.
3. Indicate, by using accent and diacritical marks, the pronunciation of: acclimated, gondola, debris, ask, gratis.
4. Give the meaning of the following affixes: mono, it, dom, able, less.
5. This slip is to be detached and the words are to be pronounced by the examiner: auxiliary, sub-strand, divisor, cornstalk, propel, eured.

epiglottis, serge (kind of cloth), sinewy, forebly, low, sleigh (a vehicle), chargeable, chimneys, memento, sieve, principal (chief), hickory, miracle, maritime, misspell, pigeon, bridal (of a bride), instantaneous, zinc, extreme, satellite, cannibal, pin-cers, achieving, pursuant.

### LITERATURE

1. What is the effect of reading a large amount of light literature which does not care to remember?
2. With what kind of literary labor did Scott begin his career as an author? On what does his fame as a writer rest largely?
3. Tell what you know of the character of the Puritans and show how their character influenced early American literature. Mention some authors whose writings illustrate your answer.
4. How were the time and energies of William Cullen Bryant employed?
5. Which is the most widely known of Bryant's poems? Which is generally considered his best? Which did Bryant himself consider his best poem?
6. Quote not less than five consecutive lines from each of two of Bryant's poems.
7. What rank do present day critics give Poe as a poetic genius? Give three important events in his life.
8. Quote one complete stanza from Poe's "Annabel Lee," or two stanzas from any other poem by Poe and tell from what your selection is taken.

### UNITED STATES HISTORY AND CIVIL GOVERNMENT

1. Under what English sovereign did Raleigh attempt to found settlements in America? Under what sovereign was the first permanent English settlement made?
2. When, by what nation, and for what purpose was New York settled? Account for the present name.
3. What developments prompted the governor of Virginia to send a messenger to the French in the Ohio valley?
4. What services did Robert Morris render the cause of the colonists in the Revolution?
5. Give an account of the origin and the present status of the Monroe doctrine.
6. When was slavery introduced into this country? When and by what means was it abolished?
7. Describe an important battle of the Civil War. Why do you consider your selection important?
8. To whom was each of the following applied: Father of the Constitution; Expounder of the Constitution; The Rock of Chickamauga; The Silent President?
9. Give the arguments for and against the present method of electing United States senators.

### PHYSIOLOGY

1. Describe the composition and structure of bone.
2. Define tissue, organ, lacuna, plasma.
3. Upon what kind of food does saliva act? Gastric juice? Pancreatic juice?
4. What gives the upper limbs greater freedom of motion than the lower? What gives the thumb its freedom of motion?
5. Locate and give the functions of each of the following: iris, papilla, thoracic duct, epidermis, Eustachian tube.
6. Can the blood in the veins flow backwards? Why? What causes the blood to ascend in the arteries?
7. What constitutes the nervous system?
8. What is the object of respiration? What is the average number of respirations per minute?
9. Describe the essential organs of voice.
10. What method do you pursue in order to make your teaching of the evil effects of the use of alcohol and narcotics most effective?

### GEOGRAPHY

1. How do the earth's movements affect the circulation of the air?
2. Locate the principal forest regions of the world.
3. What two countries produce most of the world's supply of silk?
4. What can you say about the colonial interests of the German Empire?
5. In what river valley is each of the following: Portland, Oregon; Kansas City, Mo.; Albany, N. Y.; Richmond, Va.?
6. Discuss the commercial and industrial conditions of the New England states.
7. Compare New Orleans with Minneapolis as to respective advantages for manufacturing and commerce.
8. Where is Congo Free State? How is it governed?
9. What meridian has been adopted as the standard time meridian for places in Ohio? Give the width in degrees of a standard time belt.
10. Name a city in each of the following counties in Ohio: Hamilton, Franklin, Montgomery, Lucas, Stark.

### READING

- Examiners will conduct an oral examination in reading.
- Worms in Sheep.**
- The Louisiana experiment station has been treating stomach and tape worms in sheep and lambs with the following vermifuge: "Pulverized rosin, one part; sublimed sulphur, two parts; air-slaked lime, four parts; common salt, sixteen parts. These materials were thoroughly mixed and placed in a small wooden box protected from the weather, and to which both ewes and lambs could have access at all times." As the sheep did not eat it well salt put in the feed was substituted. The salt did not prevent the worms from gathering in the stomach, but it seemed to promote a better gain.
- Warts on Cow's Teats.**
- Remedies for warts on a cow's teats are various. Professor Donald McIntosh's idea, as given in American Agriculturist, is: Tie a strong thread tightly around the base of each wart and when it elongates off apply a little tincture of antimony to the parts once to destroy the roots of the wart. Then mix twenty grains tannic acid with one ounce each of glycerin and water; apply a little after each milking until the parts are healed. Use a milk tube to draw off the milk until cured.

### ELGIN'S LOSS \$100,000.

This Was in the Six Years the Town Owned Its Electric Light Plant.

A municipal electric light plant was installed in 1888 and leased to a private company in 1904. It is estimated that the loss during this period was at least \$100,000 as compared with what it would have cost to light the streets by contract. A city official, quoted in "The Business of Municipalities and Private Corporations Compared," gives \$104,73 as a moderate estimate of the annual cost per acre. He says:

"The electrician's report shows that the city has been selling light for from 25 per cent to 50 per cent less than the cost of manufacture. Members of the electric light department admitted they could not run economically for less than \$35,000 per year, but they wanted \$45,000. Under our contract with the private company we light the same number of lamps and more hours per year for \$15,654, a saving of \$20,000 per year, figuring operating expenses only. Information from another source makes these figures \$42,000 and \$43,320 respectively. Statements from the light department show that if proper attention had been given to repairs of lamps at least \$2,000 in cost would have been saved. Hardly a joint in our whole forty-five mile circuit is soldered or wrapped; they are simply twisted together. There are no estimates of the enormous loss of current over such loose joints, and yet it has been so for sixteen years."

The following story shows how this plant was made to serve the private ends of the politicians: A mayor who was a candidate for reelection attended a dance given by a local lodge. Noticing how brilliantly the hall was lighted with electric lamps, the mayor said, "How much do you boys pay for these lights?" He was told \$35 per month. "I will do it for \$10," replied the mayor.

### CHANGE IN WILMINGTON, O.

Municipal Lighting Plant Abandoned After Ten Disastrous Years.

A responsible citizen of Wilmington sends the following information:

"In the year 1892 the village of Wilmington built an electric light plant at the cost of some \$30,000. The municipality from year to year made changes and additions and had accidents from bad management until in the year 1902 it decided to sell the plant. It having cost on an average over \$10,000 per year to operate same, frequently being entirely without light for from one week to three months at a time. The service was very inferior, and current was furnished customers from 4 to 5 o'clock in the evening until midnight. The number of street lamps varied from 80 to 100.

"The plant was sold, together with the franchise for light and water, for the sum of \$12,000, the plant being worth as junk about \$7,000, the other \$5,000 being for the rights and privileges under the franchise. The company that bought it constructed a new plant and furnishes an all night service.

At present the total cost to the village for the lighting of the streets (123 acres, city hall and other public buildings, together with fire protection from eighty-one hydrants and water for the public buildings, is less than the cost of operating the electric light plant for an average of ninety acres under the municipal regime, without any allowance for lost taxes and depreciation, the latter item alone amounting to \$3,300 a year.

### Didn't Even Need Raking.

During the discussion of the Median bill for cheaper gas in the Michigan legislature, Congressman Leggett told the following story of a cook he had brought from home with him. She was a splendid servant, but she didn't know anything about gas to cook with, so he went to the kitchen with her to explain about the range. So that she could see how it operated he lit each of the many burners. While still explaining a message called him from the kitchen, and he left her saying, "I guess you will find it will work all right now, Martha." He didn't see the cook again for four or five days; then upon entering the kitchen he said, "Well, Martha, how's that range doing?" To his utter consternation she replied: "Deed, sir, that's the best stove I ever did see. That fire that you kindled for me four days ago is still a-burning, and it ain't even lowered once."—Progressive Age.

**Municipal Markets in Berlin.**

Municipal ownership, or municipal trading, as it is termed in England, has had several hard jolts of late. The most recent blow was reported last week from Berlin, Germany, the mayor of which city declares that owing to the lower prices at which the department stores are now selling foodstuffs the municipal market halls in Berlin are being operated at a loss. The question of leasing to private concerns these halls, of which there are fifteen in Berlin, is being seriously considered.—Dry Goods Economist.

### Never Operated by the City.

An electric light plant was installed in Hudson, Wis., nineteen years ago, but, according to the mayor, has never been operated by the city, having been leased successively to various parties. The city also contracts for the pumping in the waterworks, which it owns.

### A Good Rule For Corporations.

Show to the voters that you have the interest of your section at heart as much as they have; that you are investing large sums of money in order to serve them properly and let your service testify for itself.—H. M. Moore in Progressive Age.

\$1.30

For The Greenville Journal and America's Greatest Weekly. THE Toledo Blade Toledo, Ohio.

## TREASURER'S NOTICE

TO THE TAX-PAYERS OF DARKE COUNTY FOR 1907 TAXES.

IN PURSUANCE OF LAW, I, DANIEL BURNS, Treasurer of Darke County, State of Ohio, hereby notify the tax-payers thereof that the rates of taxation for the year 1907, are, as follows: The number of mills and fractions of mills levied on each dollar of taxable property in the several townships, school districts and corporations in said county:

STATE LEVIES.		COUNTY LEVIES.	
County Fund.....	1.455	County Fund.....	1.455
Judicial Fund.....	1.455	Judicial Fund.....	1.455
Indemnity Fund.....	1.455	Indemnity Fund.....	1.455
Building Fund.....	1.455	Building Fund.....	1.455
Children's Home Fund.....	1.455	Children's Home Fund.....	1.455
Bridge Fund.....	1.455	Bridge Fund.....	1.455
Election Fund.....	1.455	Election Fund.....	1.455
Soldiers' Relief Fund.....	1.455	Soldiers' Relief Fund.....	1.455
General Relief Fund.....	1.455	General Relief Fund.....	1.455
Total.....		Total.....	
1.945		4.005	

  

NAMES OF TOWNSHIPS, SCHOOL DISTRICTS AND CORPORATIONS.		Total State Fund.	Total County Fund.	School and School House Fund.	Township Fund.	City and Corporation Fund.	Total for All Purposes.
		M	M	M	M	M	M
1 Greenville City.....	1.945	4.005	0.9	1	13.7	20	1
2 Greenville Township.....	1.945	4.005	4.5	4.9		14.4	2
3 Greenville City School.....	1.945	4.005	9.9	4.9		19.8	3
4 Brown Township School.....	1.945	4.005	6	4.8		14.9	4
5 German Township School.....	1.945	4.005	6	4.8		16.2	5
6 Harrison Township No. 4 Special School.....	1.945	4.005	4	4.8		14.2	6
7 Harrison No. 5 Special School.....	1.945	4.005	5	4.8		15.2	7
8 Washington Township School.....	1.945	4.005	4.5	4.8		14.7	8
9 Palestine Village School.....	1.945	4.005	8	4.8		18.2	9
10 Palestine Township.....	1.945	4.005	1.3	2.1		13.8	10
11 Washington Township.....	1.945	4.005	4.5	3.5		13.4	11
12 Jackson Township School.....	1.945	4.005	7.6	3		12.5	12
13 Harrison Township.....	1.945	4.005	3	3		16	13
14 Harrison No. 2 Special School.....	1.945	4.005	3	3		11.4	14
15 Harrison No. 4 Special School.....	1.945	4.005	3	3		12.4	15
16 German Township School.....	1.945	4.005	9	3		17.4	16
17 Hollinsburg Village School.....	1.945	4.005	9	3		17.4	17
18 New Madison Village School.....	1.945	4.005	10	3		18.4	18
19 New Madison Corporation.....	1.945	4.005	10	5	7.7	23.6	19
20 Hollansburg Corporation.....	1.945	4.005	8	3	8	21.4	20
21 Butler Township.....	1.945	4.005	3.7	3.3		11.4	21
22 Castle Special School.....	1.945	4.005	2.5	3.3		12.2	22
23 New Madison Corporation.....	1.945	4.005	3.8	3.3	7.7	22	23
24 Butler Township No. 2 Special School.....	1.945	4.005	2.8	3.3		12.5	24
25 Butler Township No. 3 Special School.....	1.945	4.005	3.5	3.3		12.2	25
26 Neave No. 1 Special School.....	1.945	4.005	2.5	3.4		11.3	26
27 Neave No. 2 Special School.....	1.945	4.005	3	3.4		11.8	27
28 Neave No. 3 Special School.....	1.945	4.005	2	3.4		10.8	28
29 Neave No. 4 Special School.....	1.945	4.005	4.2	3.4		13	29
30 Neave No. 5 Special School.....	1.945	4.005	4.5	4.4		13.8	30
31 Greenville Township School.....	1.945	4.005	4.5	4.4		13.3	31
32 Adams Township School.....	1.945	4.005	4.5	4		13.5	32
33 Newberry Township School.....	1.945	4.005	4	4.9		15	33
34 Versailles Corporation.....	1.945	4.005	5	4.9	15.6	20	34
35 Versailles Village School.....	1.945	4.005	4	5	4.1	14	35
36 Twin Township.....	1.945	4.005	8.5	4.6		18.5	36
37 Arcadium Village School.....	1.945	4.005	6	4.2		15.6	37
38 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	38
39 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	39
40 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	40
41 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	41
42 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	42
43 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	43
44 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	44
45 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	45
46 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	46
47 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	47
48 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	48
49 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	49
50 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	50
51 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	51
52 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	52
53 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	53
54 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	54
55 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	55
56 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	56
57 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	57
58 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	58
59 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	59
60 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	60
61 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	61
62 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	62
63 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	63
64 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	64
65 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	65
66 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	66
67 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	67
68 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	68
69 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	69
70 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	70
71 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	71
72 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	72
73 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	73
74 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	74
75 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	75
76 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	76
77 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	77
78 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	78
79 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	79
80 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	80
81 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	81
82 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	82
83 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	83
84 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	84
85 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	85
86 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	86
87 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	87
88 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	88
89 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	89
90 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	90
91 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	91
92 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	92
93 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	93
94 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	94
95 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	95
96 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	96
97 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	97
98 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	98
99 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	99
100 Arcadium Corporation.....	1.945	4.005	6	4.2		15.6	100